Total No. of Questions : 5]

SEAT No. :

P-1910

[Total No. of Pages : 2

[6034]-306
S.Y. B.B.A. (CA)
CA-305 : BIG DATA
(2019 Pattern) (CBCS) (Semester - III)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

Q1) **Attempt any EIGHT of the following :** **[8 × 2 =16]**

a) What is population?

b) What is operators in R?

c) Define array in R?

d) Define sample.

e) What is machine learning?

f) Define data frame.

g) Define market basket analysis.

h) What is data analytics?

i) Define head() and tail().

j) Enlistdata types in R?

Q2) **Attempt any FOUR of the following :** **[4 × 4 = 16]**

a) Explain probability in details.

b) Explain the types of Analytics.

c) Explain correlation with its type.

d) Explain the application of big data..

e) Explain Machine learning.

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Q3) **Attempt any FOUR of the following :** **[4 × 4 = 16]**

a) How Naive Bayes algorithm works.

b) Explain Decision tree with example.

c) Explain support vector machine with example.

d) Explain digital data with its types.

e) Explain Association rule mining.

Q4) **Attempt any FOUR of the following :** **[4 × 4 = 16]**

a) What is regression? Explain with its type.

b) Write an R program to find out number is positive or negative.

c) Write an R program to sort a Vector in ascending and descending order.

d) Write an R Program to print Multiplication Table of 2.

e) Write an R program to check number is Armstrong or not.

Q5) **Write a short note on Any TWO of the following :** **[2 × 3 = 6]**

a) Data manipulation functions.

b) Any 5 types of data visualisation.

c) Loops in R.

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